SEQUENCE LISTING

<110> Oberdoerffer, Philipp
     Kanellopolou, Chrysi

<120> SYSTEMS AND METHODS FOR SHORT RNA EXPRESSION

<130> 10861-034US1

<150> PCT/US2005/003104
<151> 2005-01-21

<150> US 60/538,871
<151> 2004-01-22

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 623
<212> DNA
<213> Synthetic U6-STOP-shA1 construct

<400> 1
tccgacgccg ccatctctag gcccgcgccg gcccctcgc acagacttgt gggagaagct 60
cggctactcc cctgccccgg ttaatttgca tataatattt cctagtaact atagaggctt 120
aatgtgcgat aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
ggaaactcac cctaactgta aagtaattgt gtgttttgag actataactt cgtatagcat 300
acattatacg aagttattac gtttttgcga ttttgaatt cgttcctcag aggaactgac 360
aagcaccta acatcctatt ggaggctcac tcacgttttt tctattttgt ttcttgacag 420
cagagctcgt tgctcactgt atagctcagg ttggcctgac actgatgagg ttctccagtg 480
actgcctcta cctacctact gggatgacag aggtgtacca ccaagccacg cccggggat 540
ccataacttc gtatagcata cattatacga aggaaatgct ctttctcctc aaagctttga 600
ggagaaagag catttccctt ttt 623

<210> 2
<211> 282
<212> DNA
<213> Artificial Sequence

<220>

<223> Functional units of the U6-STOP-shA1 construct

<400> 2
tccgacgccg ccatctctag gcccgcgccg gcccctcgc acagacttgt gggagaagct 60
cggctactcc cctgccccgg ttaatttgca tataatattt cctagtaact atagaggctt 120
aatgtgcgat aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
ggaaactcac cctaactgta aagtaattgt gtgttttgag ac 282

<210> 3
<211> 5
<212> DNA

<213> Artificial Sequence

<220>
<223> U6 promoter of TATA box

<400> 3
tataa   5

<210> 4
<211> 34
<212> DNA
<213> Unknown

<220>
<223> Wild type of loxP sequence

<400> 4
ataacttcgt atagcataca ttatacgaag ttat   34

<210> 5
<211> 225
<212> DNA
<213> Artificial Sequence

<220>

<223> Stop casete sequence includes U6 pol III
      termination

<400> 5
tacgtttttg cgatttttga attcgttcct cagaggaact gacaagcacc ctaacatcct 60
attggaggct cactcacgtt ttttctattt tgtttcttga cagcagagct cgttgctcac 120
tgtatagctc aggttggcct gacactgatg aggttctcca gtgactgcct ctacctacct 180
actgggatga cagaggtgta ccaccaagcc acgcccgggg gatcc   225

<210> 6
<211> 212
<212> DNA
<213> Artificial Sequence

<220>

<223> genomic U6 PolIII termination sequence

<400> 6
tttttgaatt cgttcctcag aggaactgac aagcaccta acatcctatt ggaggctcac 60
tcacgttttt tctattttgt ttcttgacag cagagctcgt tgctcactgt atagctcagg 120
ttggcctgac actgatgagg ttctccagtg actgcctcta cctacctact gggatgacag 180
aggtgtacca ccaagccacg cccggggggat cc   212

<210> 7
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> the mutant second *loxP* site downstream of the STOP

cassette

<400> 7
ataacttcgt atagcataca ttatacgaag gaaa   34

<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 8
ggacctccat ctgctcttat tt   22

<210> 9
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 9
ggtctattac tgtgcaagtt gg   22

<210> 10
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 10
tgtgaattcg ttcctcagag gaactga   27

<210> 11
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 11
tgtggatccc ccgggcgtgg cttggtggta cacctc   36

<210> 12
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 12
gactctagat ccgacgccgc catctctag   29

<210> 13
<211> 85
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 13
tgcgaattca aaaatcgcaa aaacgtaata acttcgtata agtatgctat acgaagttat 60
agtctcaaaa cacacaatta cttac   85

<210> 14
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 14
tgctcgagat gtctgagtac gagttcatgc atatc   35

<210> 15
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 15
ctggatcctt atttcagcag gaacagcatc tcccatatct g   41

<210> 16
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 16
ctggatcctt acttgaggag aaagagcatt tc   32

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 17

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<400> 17
ttcctaataa cccagccttt g                                              21

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 18
gtgatggcag gagatttgta a                                              21

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 19
cattaactgg ggaaggattg tgac                                           24

<210> 20
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 20
gcagaaaagt cagccagcca gatt                                           24

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 21
caagagggag agcaagccta                                                20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 22
cgtctcaggc cttcagtgag                                                20
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